WHAT IS CLAIMED IS:

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- 1. A dielectric filter comprising:
- a dielectric block having at least one resonance electrode,
- a ground electrode on the dielectric block, input and output terminal electrodes to connect the dielectric filter to external circuits, and
- a separated electrode provided on an outer face of the dielectric block, not connected to the input and output terminals or the ground electrode,
- the separated electrode being connected to the resonance electrode via a capacitance.
 - 2. The dielectric filter according to claim 1, wherein either a step or a cavity is provided on the dielectric block, and the separated electrode is provided on the step or in the cavity.
 - 3. The dielectric filter according to claim 1, wherein a voltage controllable reactance element and a circuit element for controlling the reactance element are electrically connected to the separated electrode.
 - 4. The dielectric filter according to claim 3, wherein either a step or a cavity is provided on the dielectric block, and the separated electrode is provided on the step or in the cavity.

- 5. The dielectric filter according to claim 3, wherein either a step or a cavity is provided on the dielectric block, and the separated electrode is provided on the step or in the cavity.
- 6. The dielectric filter according to claim 3, wherein the dielectric block, the reactance element, and the circuit element are mounted onto a circuit substrate, and the reactance element and the circuit element are electrically connected to the separated electrode via a circuit pattern provided on the circuit substrate.
- 7. The dielectric filter according to claim 1, wherein the separated electrode and the input and output terminal electrodes are provided so as to extend on at least two outer faces of the dielectric block.
- 8. The dielectric filter according to claim 1, wherein the separated electrode and the input and output terminal electrodes are provided at least on the under face of the dielectric block.
- 9. The dielectric filter according to claim 1, wherein the number of the separated electrodes is at least two, and the at least two separated electrodes are electrically connected to each other by a coupling

- 5 adjustment element.
 - 10. A dielectric filter comprising:
 - a dielectric block having at least one resonance hole,

the dielectric block having an outer surface including a bottom face,

a conductor inserted into the resonance hole the conductor being insulated from an inner conductor of the resonance hole,

- a voltage-controllable reactance element

 10 electrically connected to the conductor, and
 - a circuit substrate upon which the reactance element is mounted, disposed on the outer surface of the dielectric block excluding the bottom face thereof.
 - 11. The dielectric filter according to claim 10, wherein the voltage controllable reactance element is one of a PIN diode, a field effect transistor, and a variable capacitance diode.
 - 12. A dielectric filter comprising:
 - a dielectric block having at least one resonance hole,

the dielectric block having an outer surface

- 5 including a bottom face,
 - a conductor electrically connected to an inner conductor of the resonance hole,
 - a voltage-controllable reactance element electrically connected to the conductor, and
- a circuit substrate upon which the reactance element is mounted, disposed on the outer surface of the dielectric block excluding the bottom face thereof.
 - 13. The dielectric filter according to claim 12, wherein the voltage controllable reactance element is one of a PIN diode, a field effect transistor, and a variable capacitance diode.
 - 14. An antenna sharing device comprising a pair of filters, respective terminals of said filters being connected together, one of said filters being a dielectric filter according to any one of claims 1, 3, 10 and 12.
 - 15. A communication device comprising a high-frequency circuit comprising one of a transmitting circuit and a receiving circuit, said circuit including a dielectric filter according to any one of claims 1, 3, 10 and 12.

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- 16. A communication device comprising a high-frequency circuit comprising one of a transmitting circuit and a receiving circuit, said circuit being connected to a dielectric filter according to any one of claims 1, 3, 10 and 12.
 - 17. A communication device comprising:
 - a transmitting circuit;
 - a receiving circuit; and
 - an antenna-sharing device comprising a pair of
- filters each including a first and a second terminal; the first terminals of the filters being connected together; and

the second terminals of the filters being connected respectively to said transmitting circuit and said receiving circuit.